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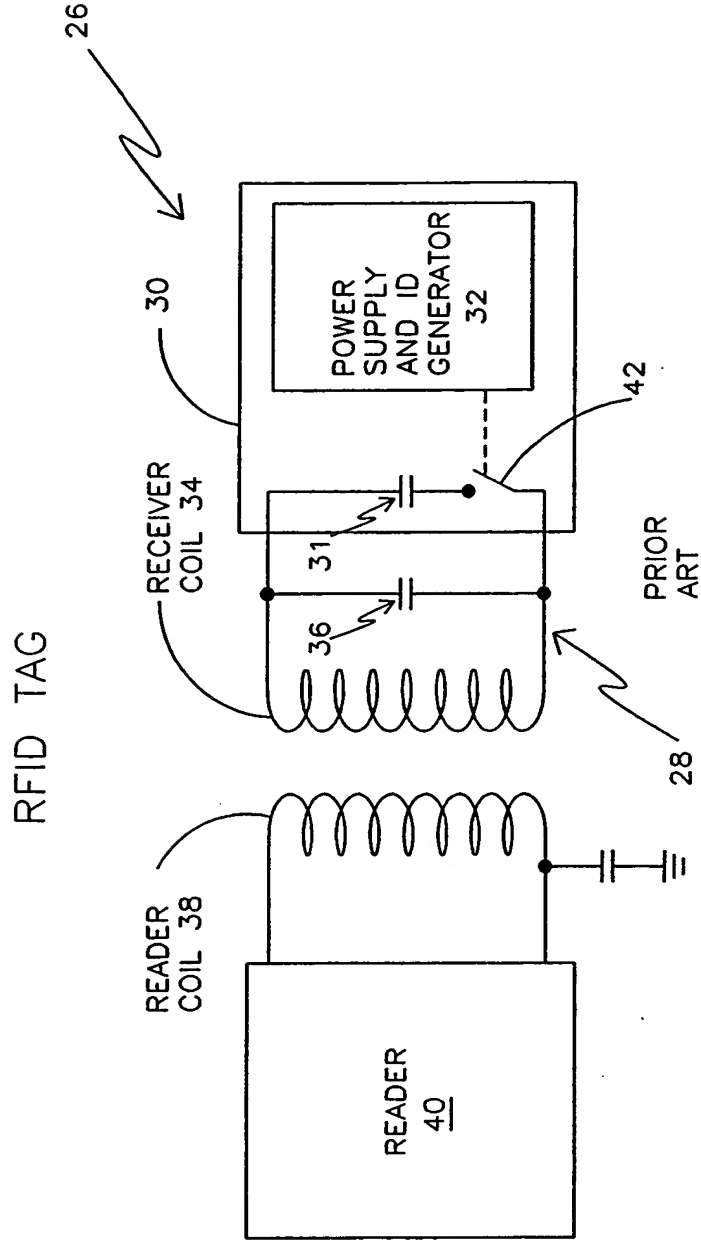


FIG. 1

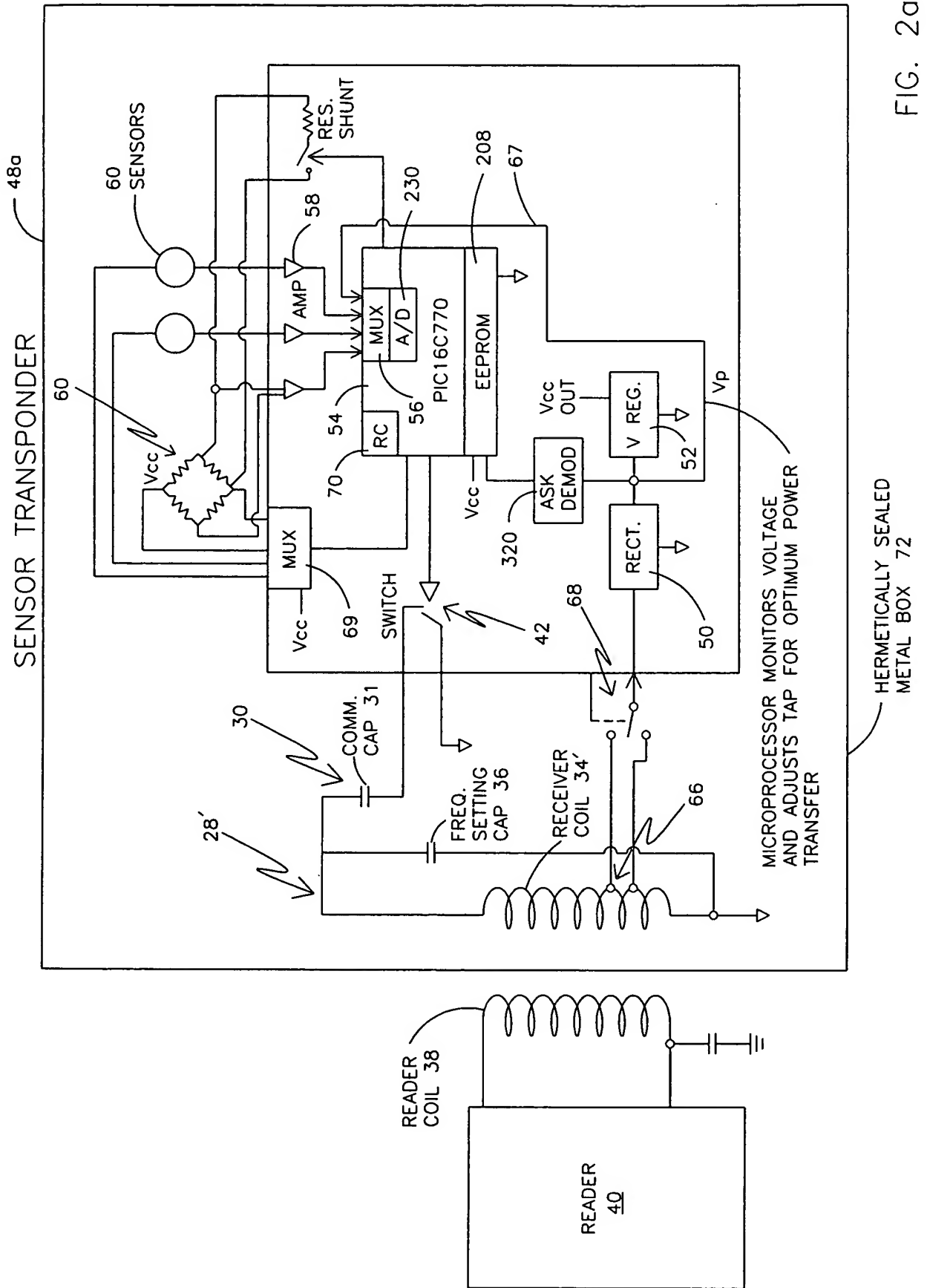


FIG. 2a

SENSOR TRANSPONDER WITH TRANSMITTER 48b

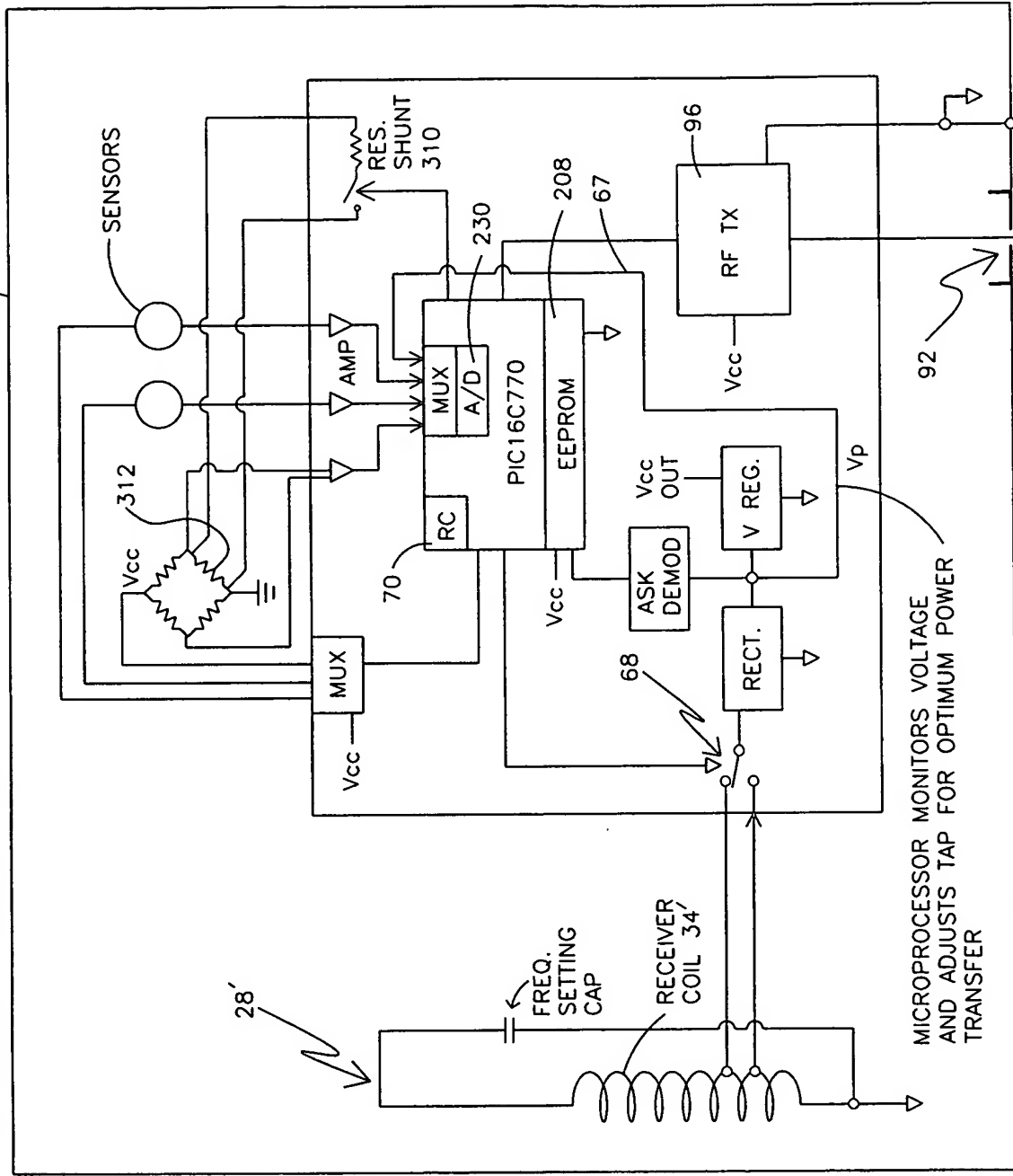
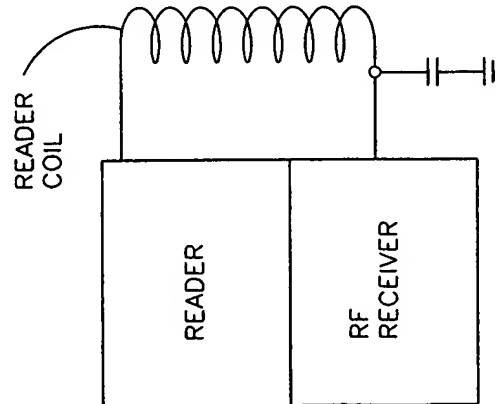
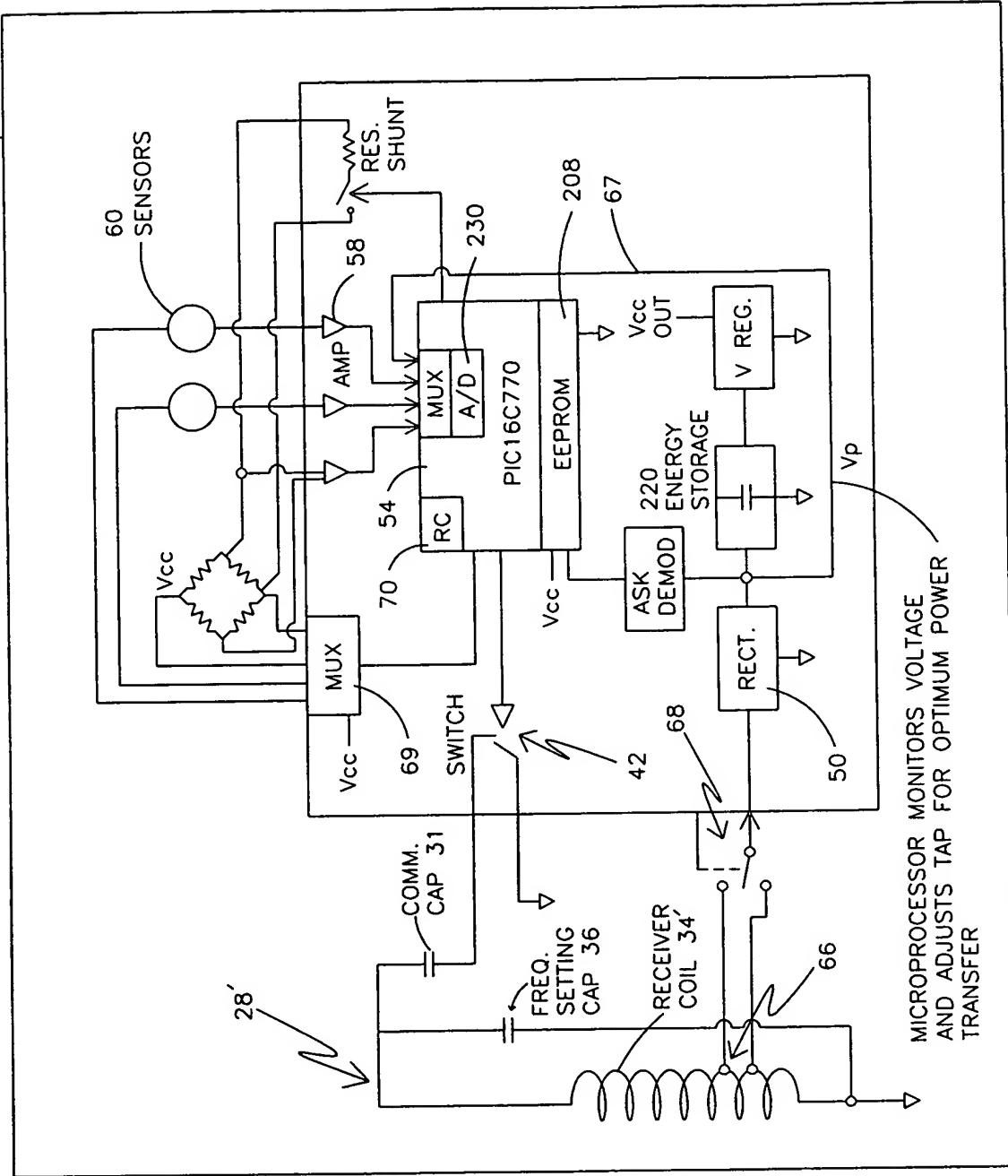


FIG. 2b



48c

SENSOR TRANSPONDER WITH ENERGY STORAGE



HERMETICALLY SEALED
METAL BOX 72

FIG. 2c

CAPACITIVE DIVIDER

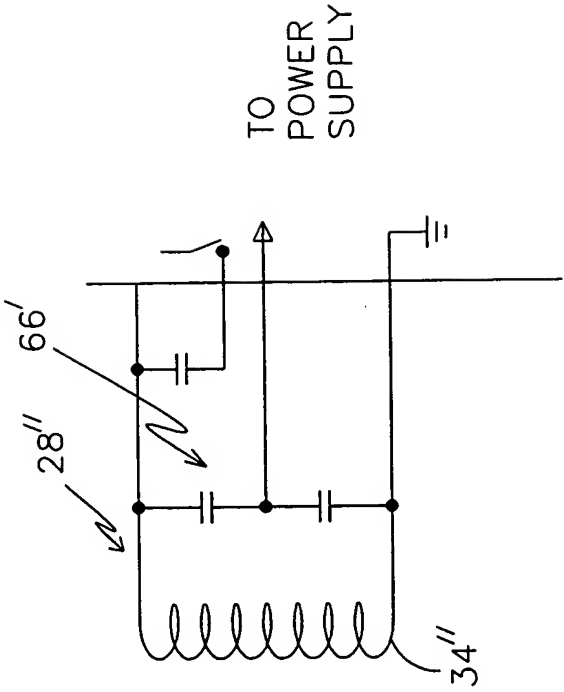


FIG. 2d

DVRT TRANSPONDER WITH RATIOMETRIC SIGNAL CONDITIONING

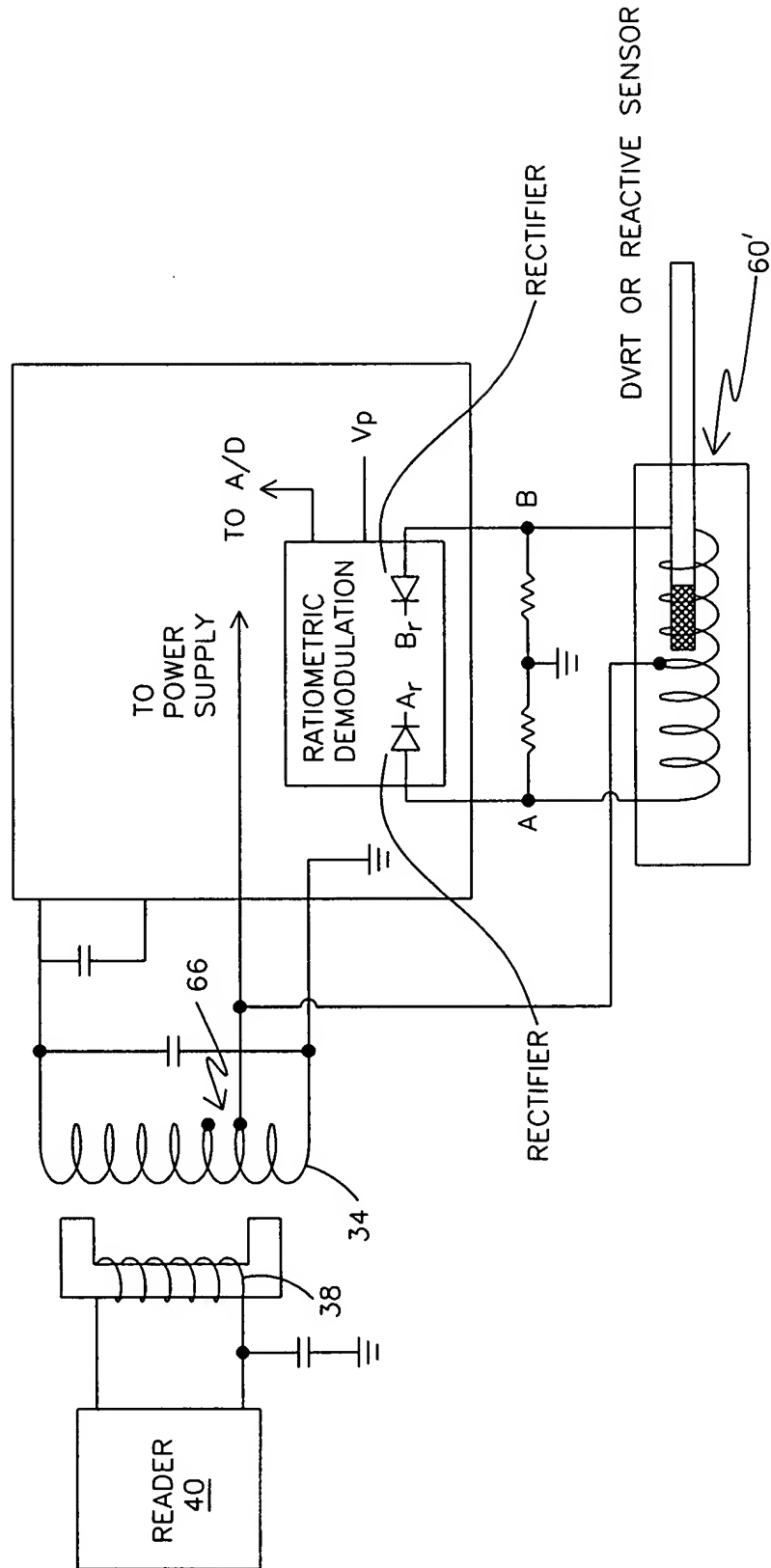


FIG. 3

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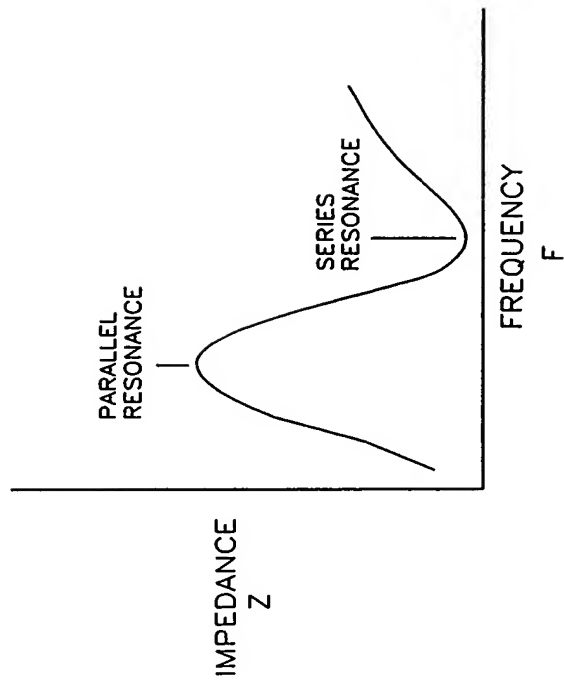


FIG. 4

EFFECT OF REACTANCE SWITCHING
ON IMPEDANCE OF RESONANT
TANK CIRCUIT WITH HIGH-Q

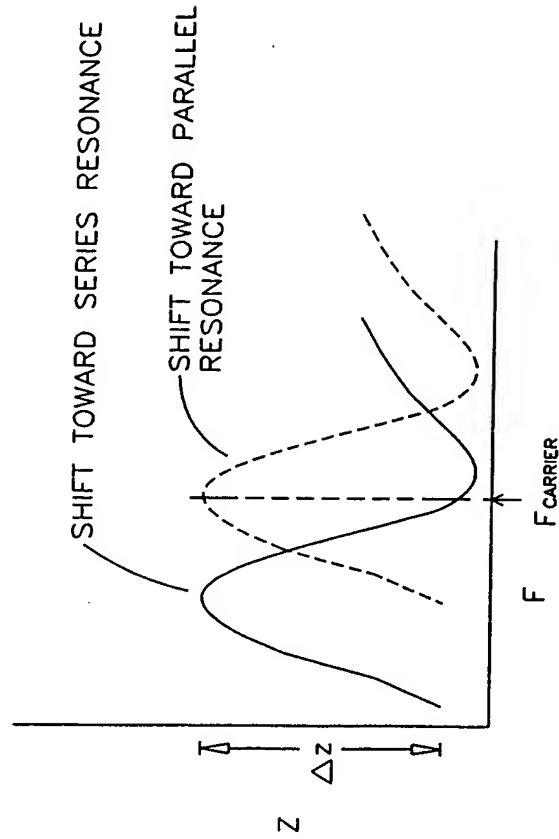


FIG. 5

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EFFECT OF REACTANCE SWITCHING
ON IMPEDANCE OF RESONANT
TANK CIRCUIT WITH LOW-Q

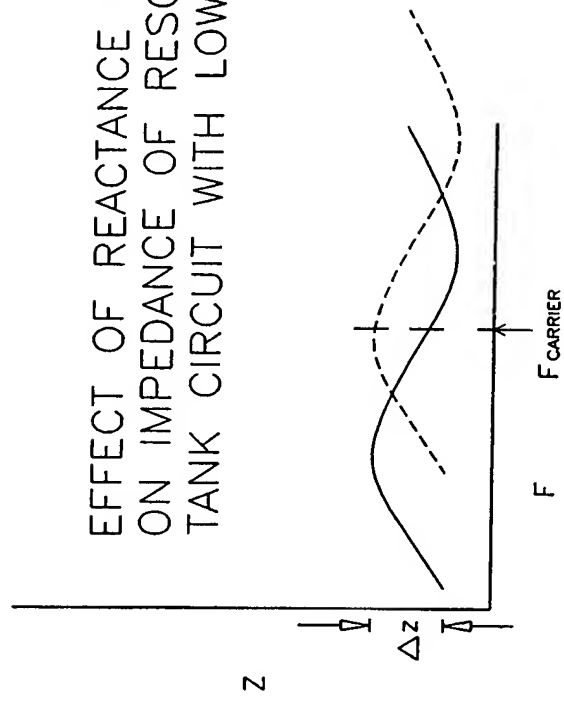


FIG. 6

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JET ENGINE APPLICATION

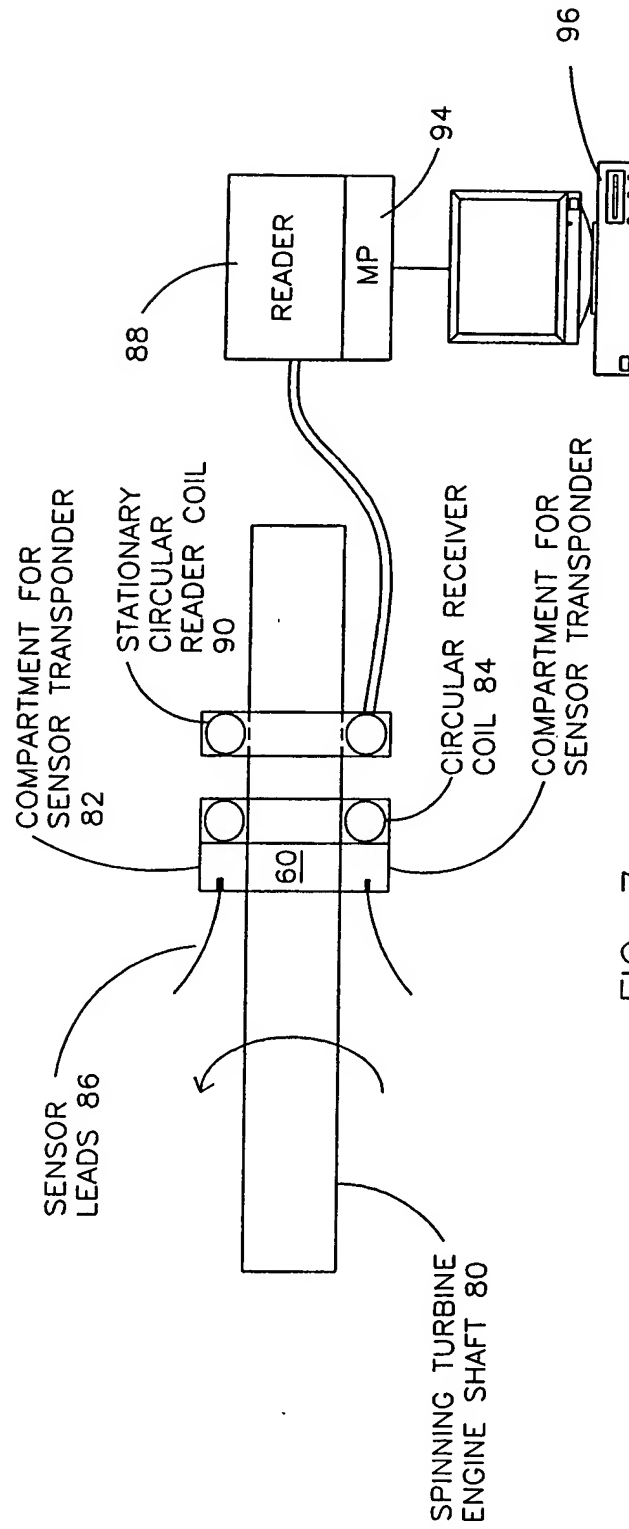


FIG. 7

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MULTIPLE ADDRESSABLE TRANSPONDERS

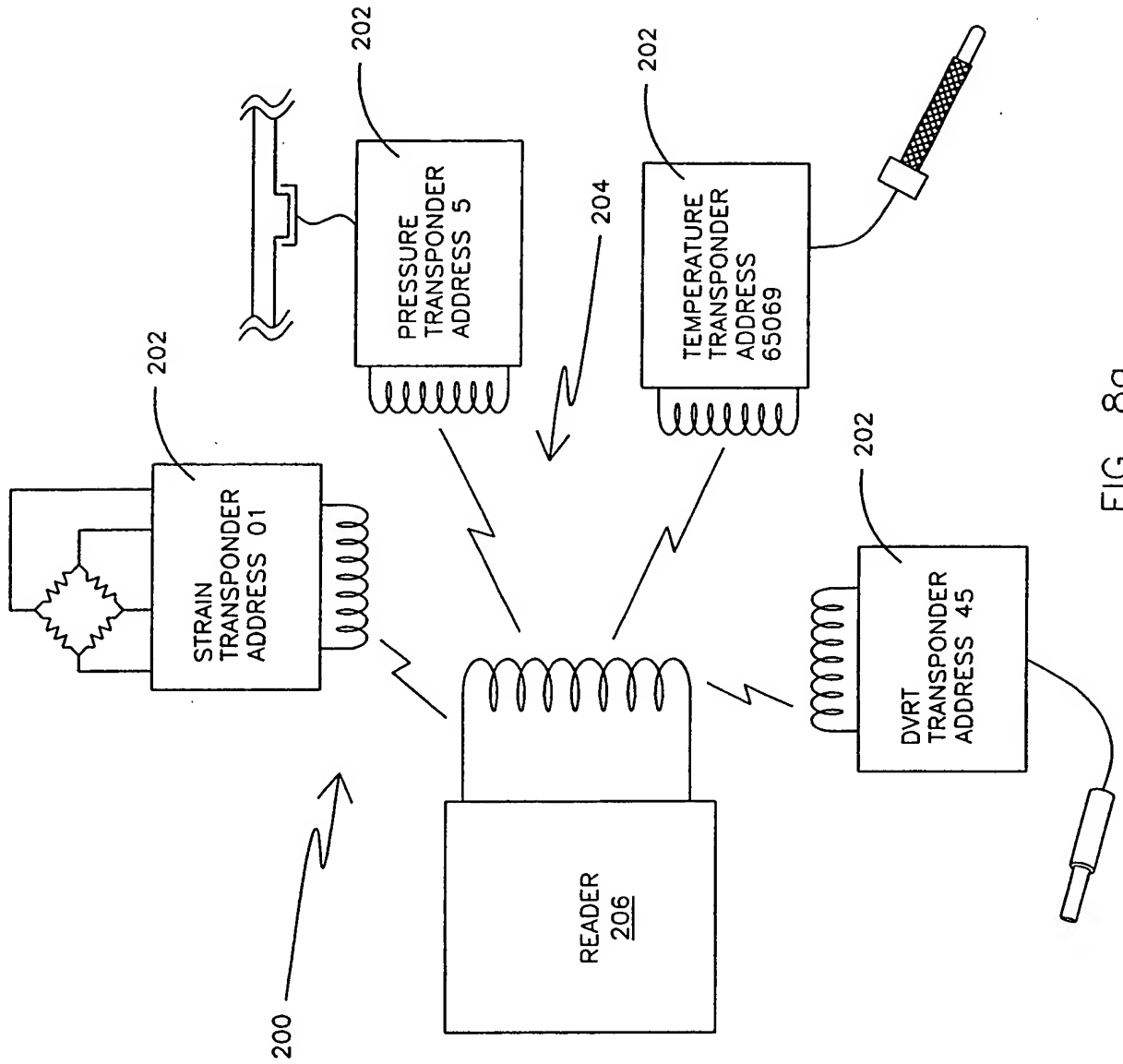


FIG. 8a

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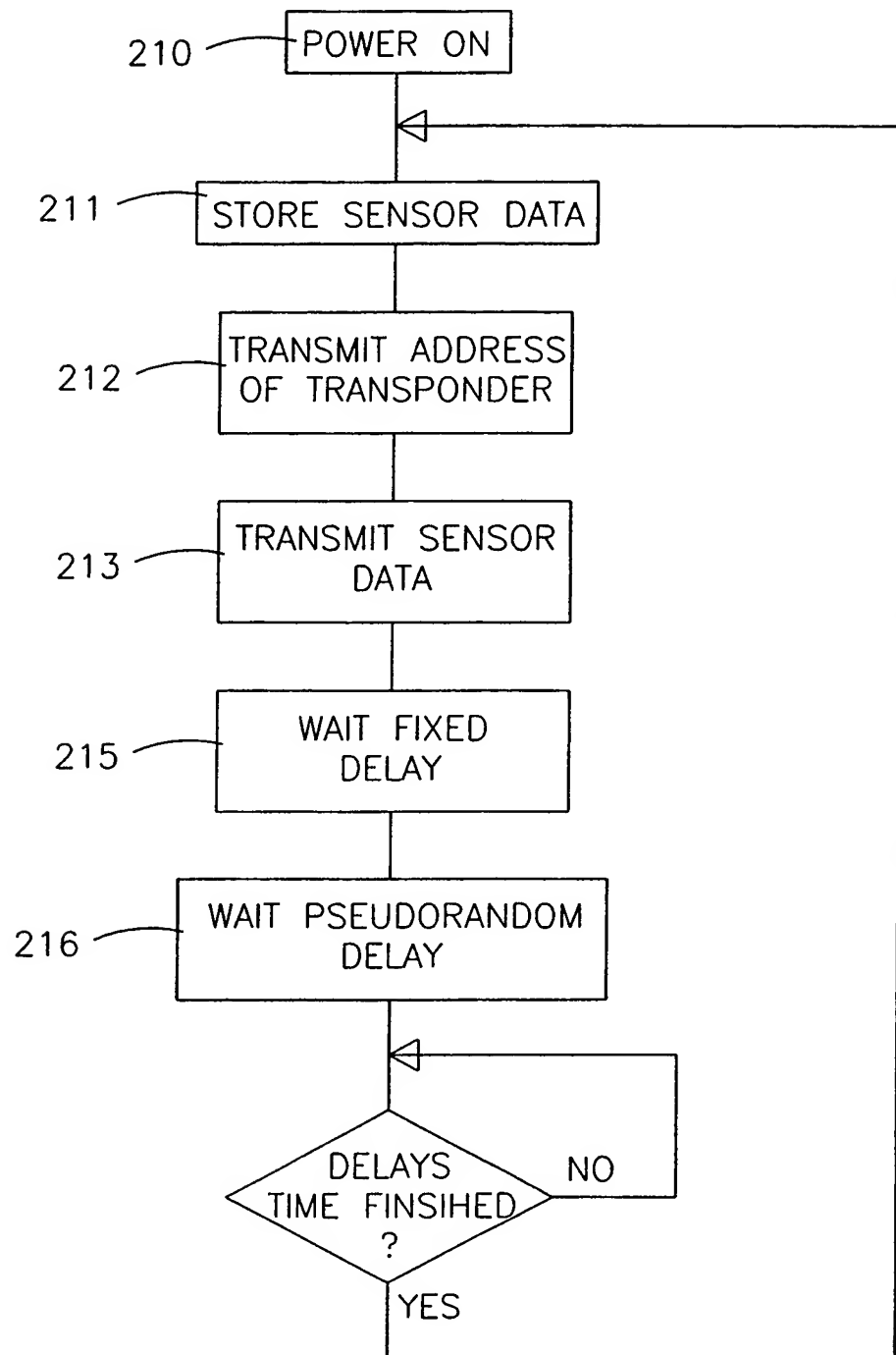


FIG. 8b

MULTIPLE ADDRESSABLE TRANSPONDERS ON A SINGLE RECEIVER COIL

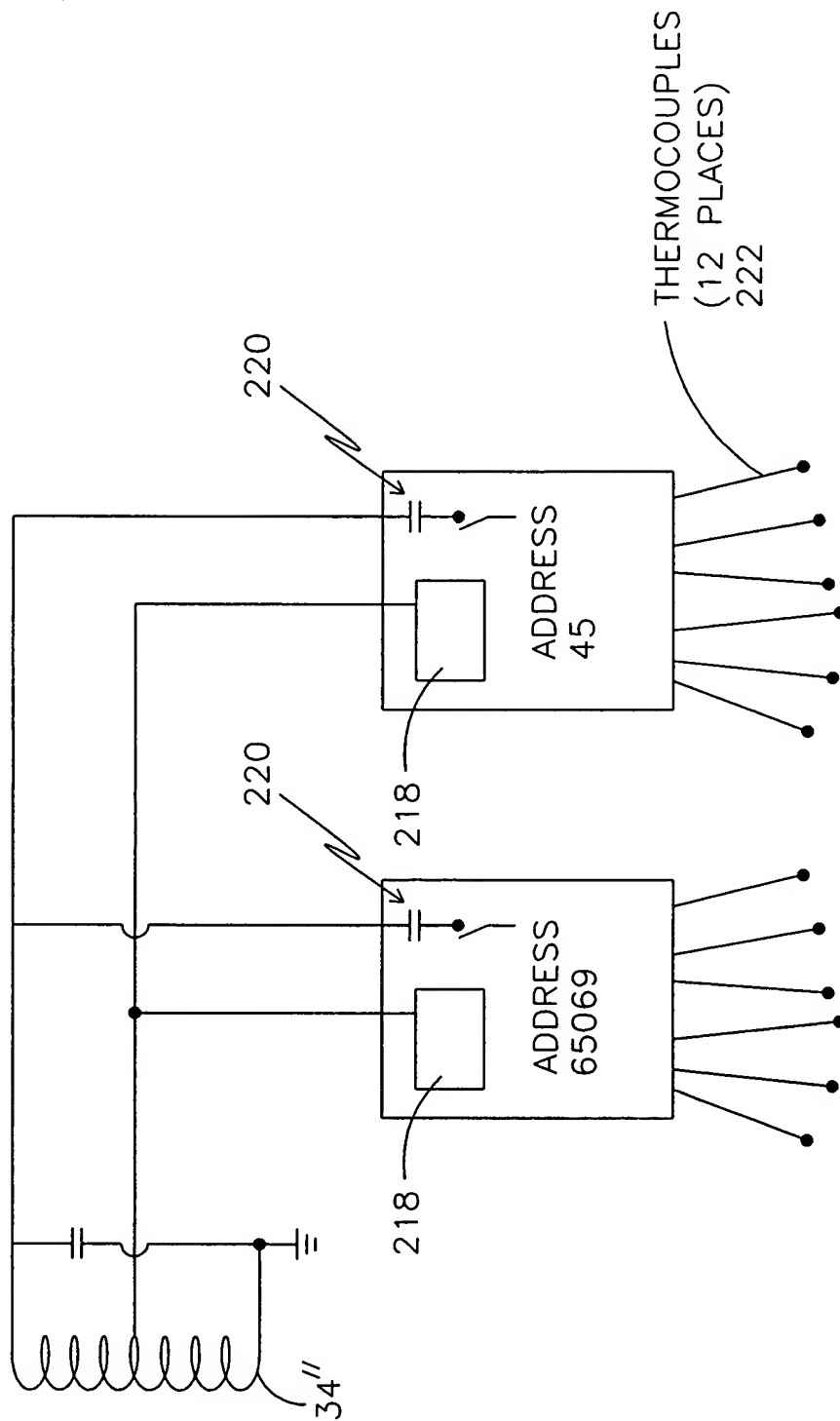
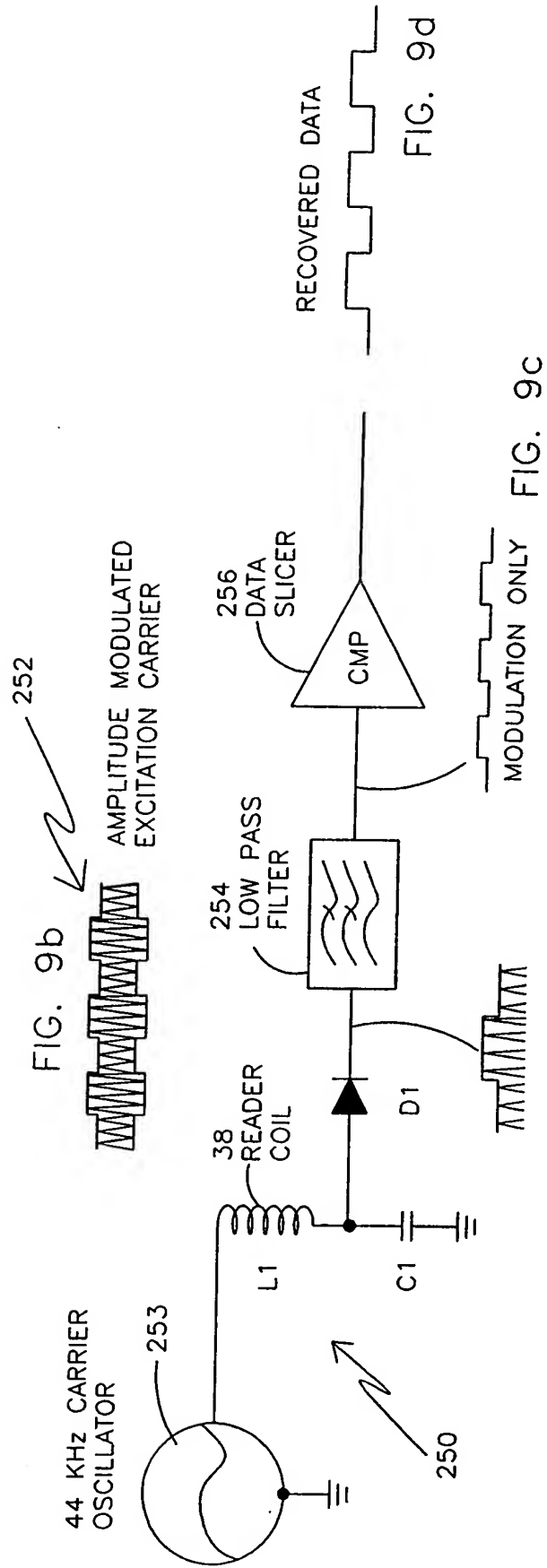


FIG. 8c

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ENVELOPE DEMODULATION



PRIOR ART

FIG. 9a

SYNCHRONOUS AM DEMODULATION READER

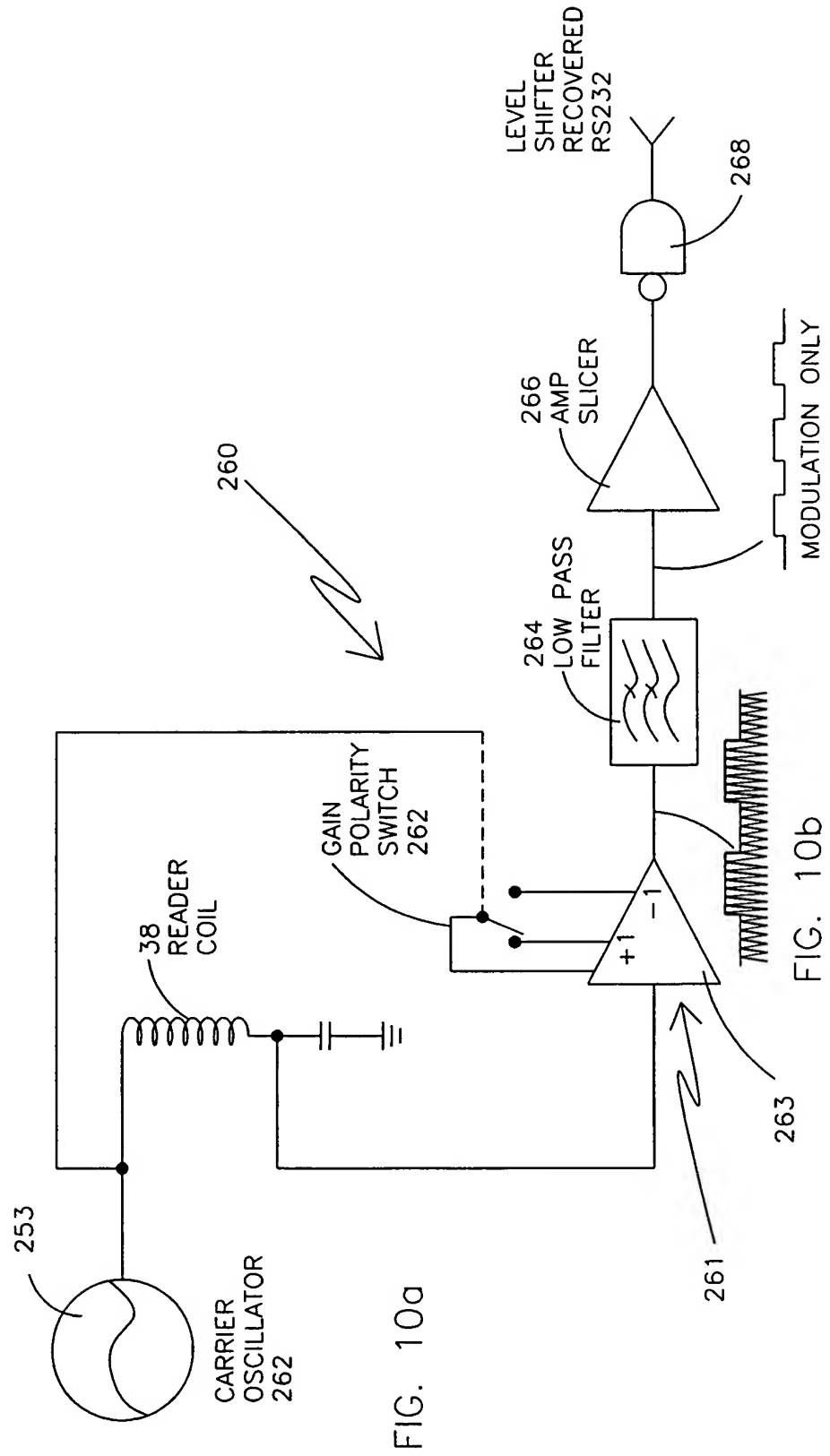


FIG. 10c

FIG. 10b

FIG. 10a

IMPEDANCE BRIDGE DEMODULATION

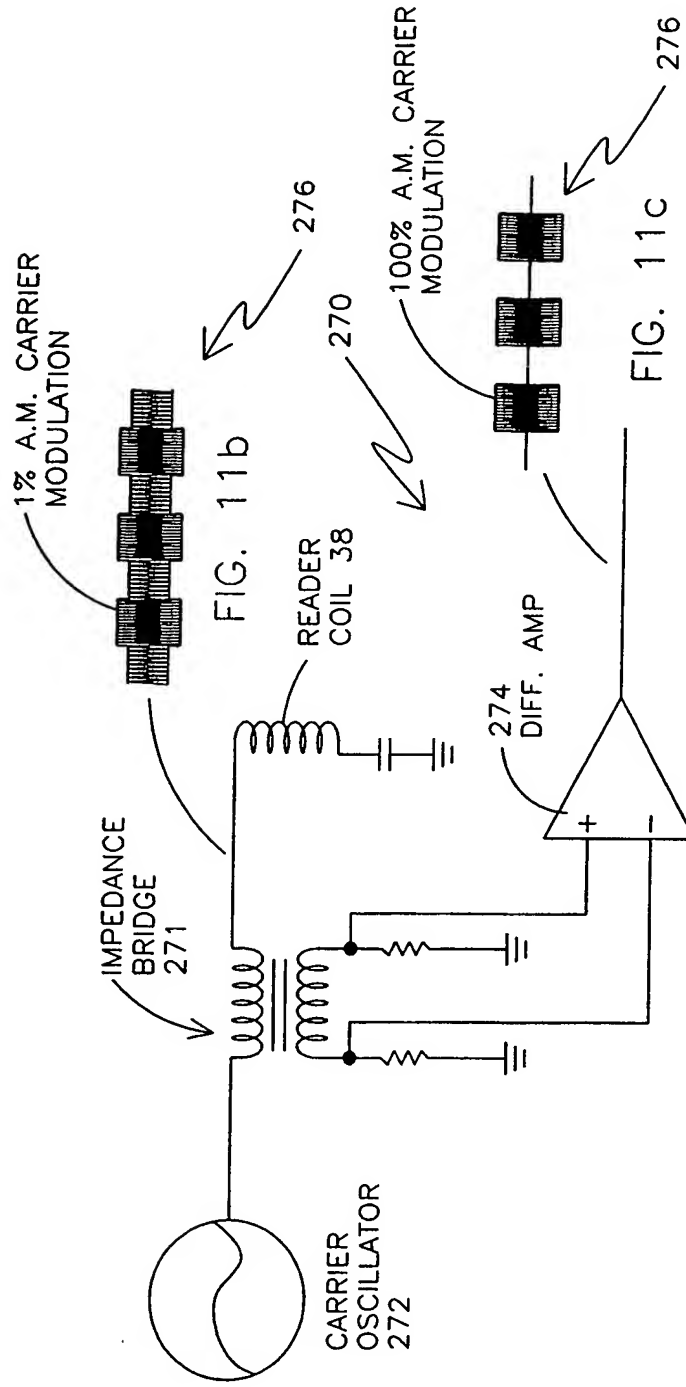


FIG. 11a

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SYNCHRONOUS AM DEMODULATION READER USING AD698

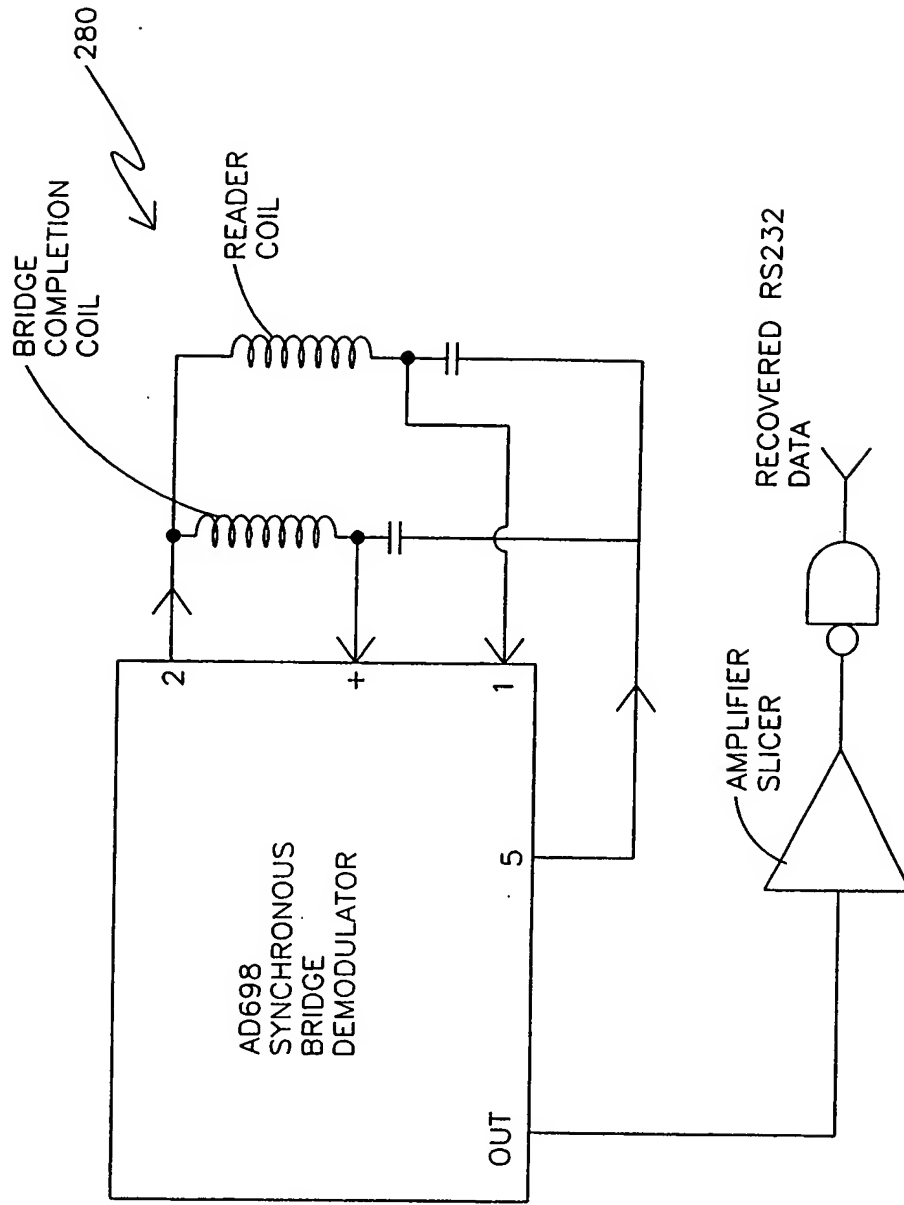


FIG. 12

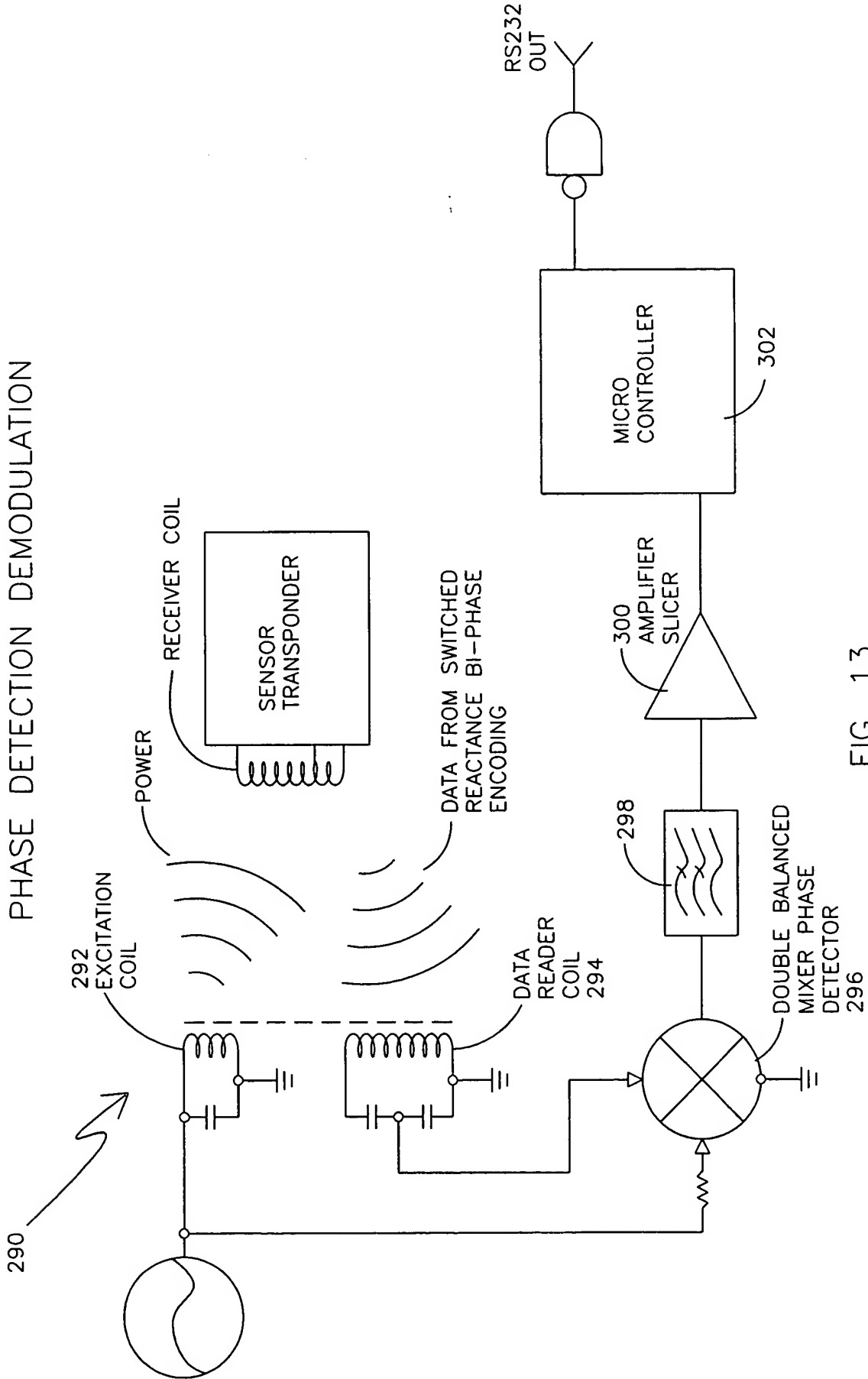


FIG. 13

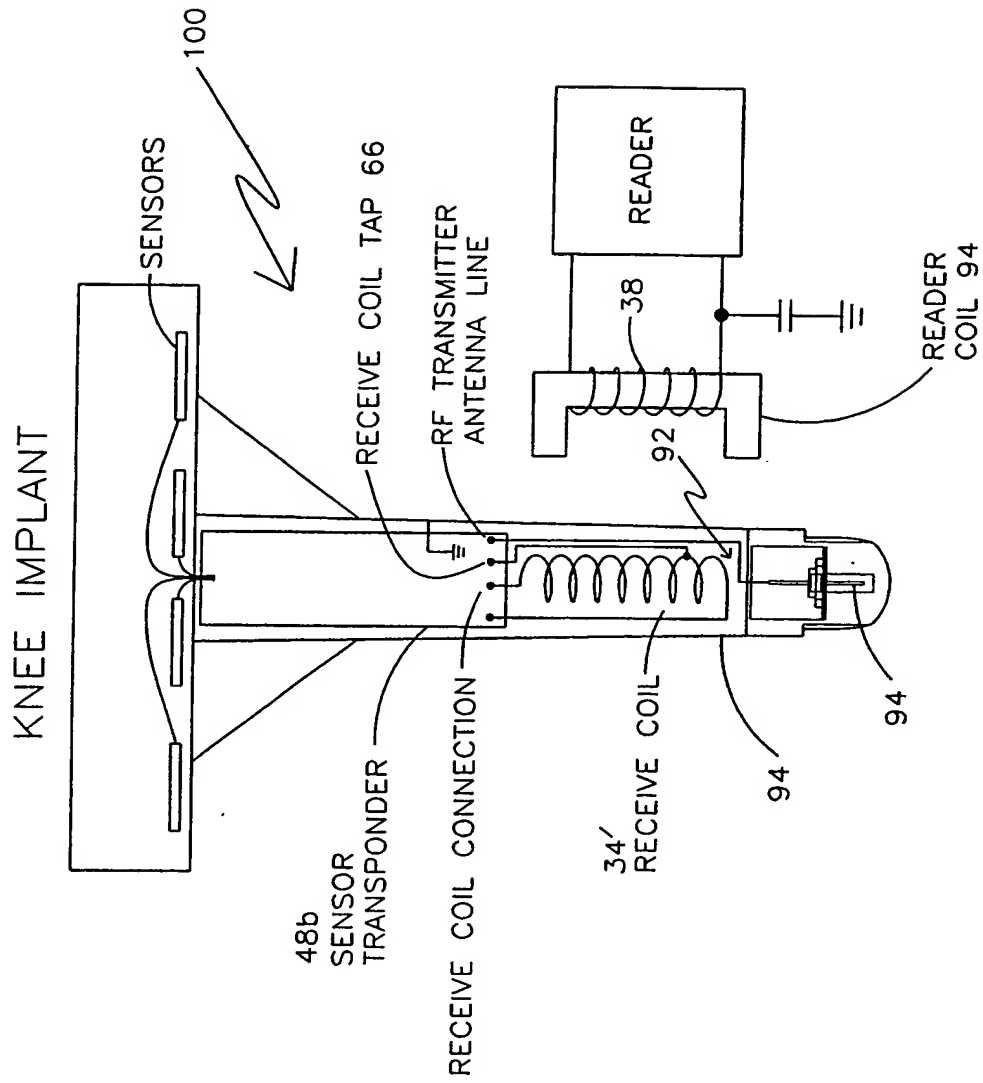


FIG. 14

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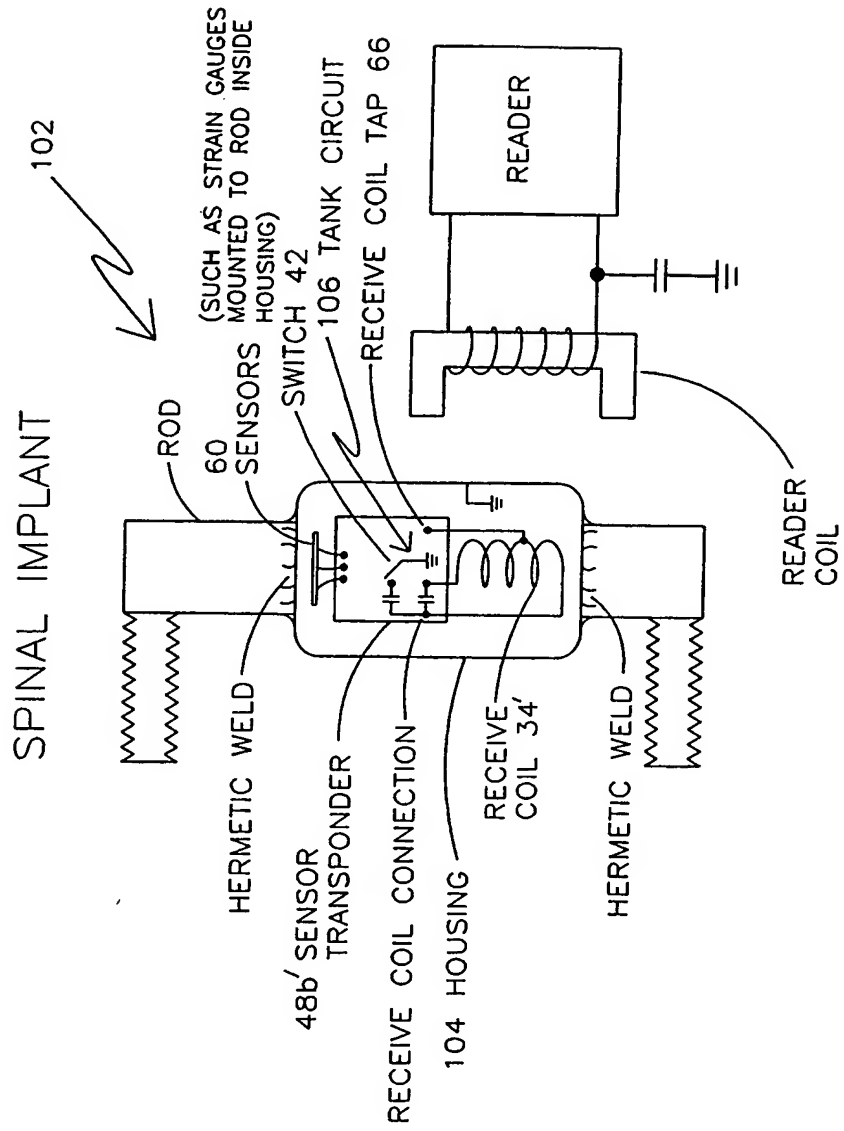


FIG. 15

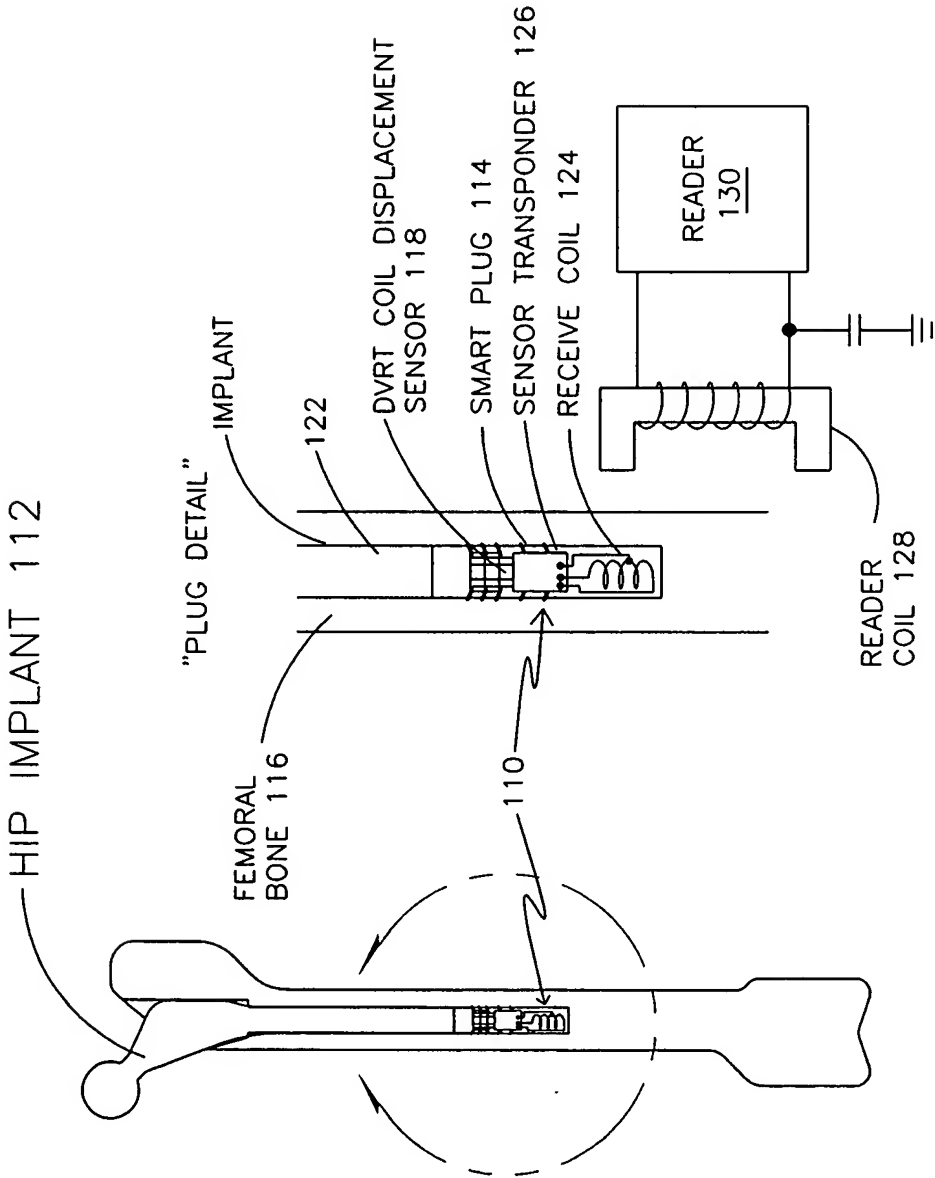


FIG. 16a

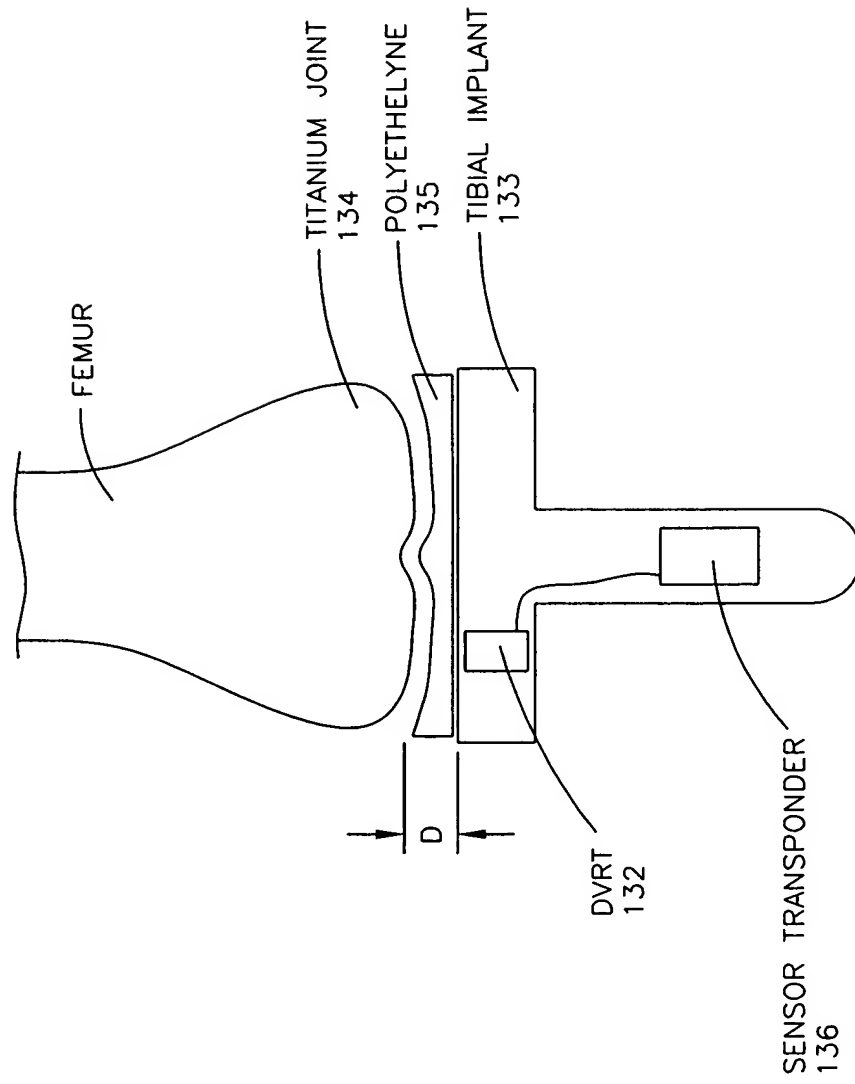


FIG. 16b

REMOTELY POWERED AND INTERROGATED CORROSION
MEASURING DVRT SYSTEM W/SPRING ELEMENT

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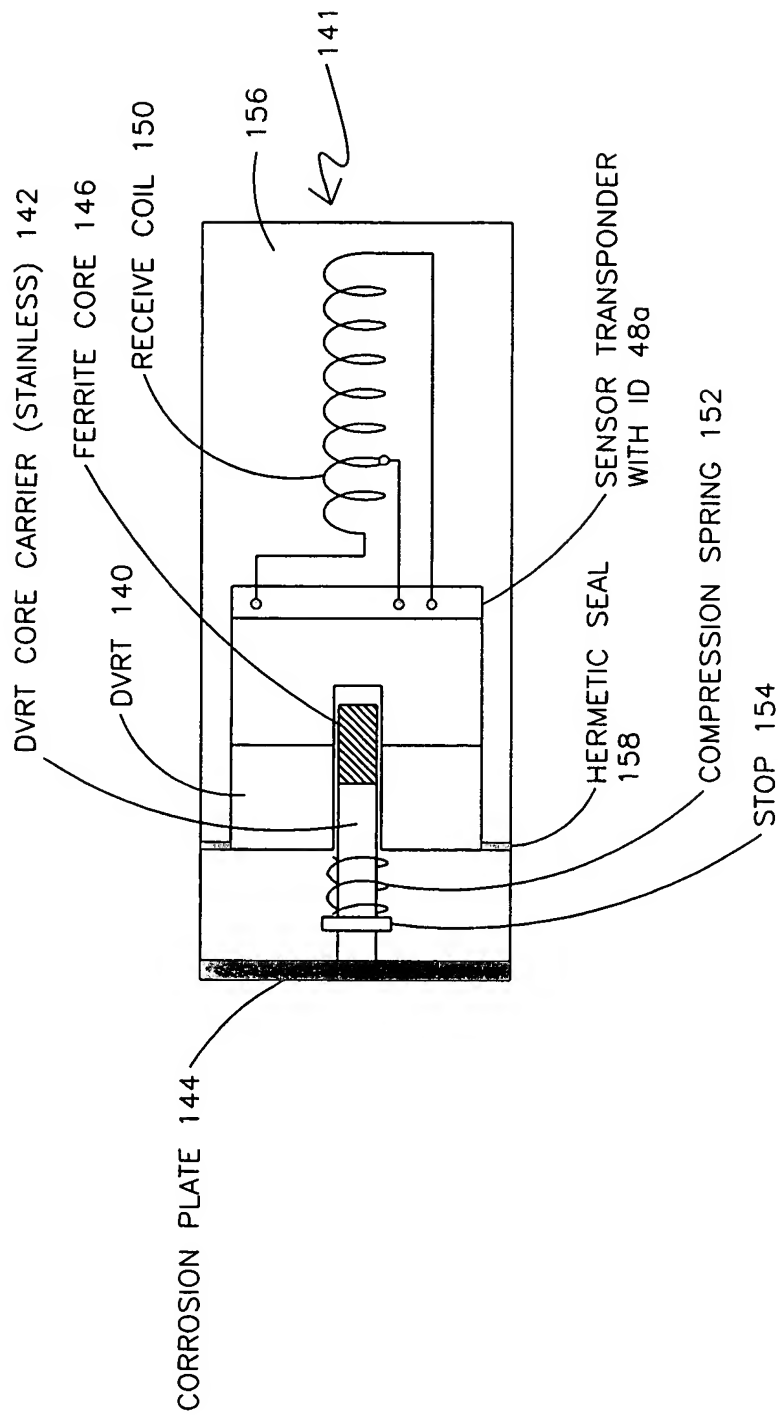


FIG. 17a

REMOTELY POWERED AND INTERROGATED CORROSION
MEASURING DVRT SYSTEM W/O SPRING ELEMENT

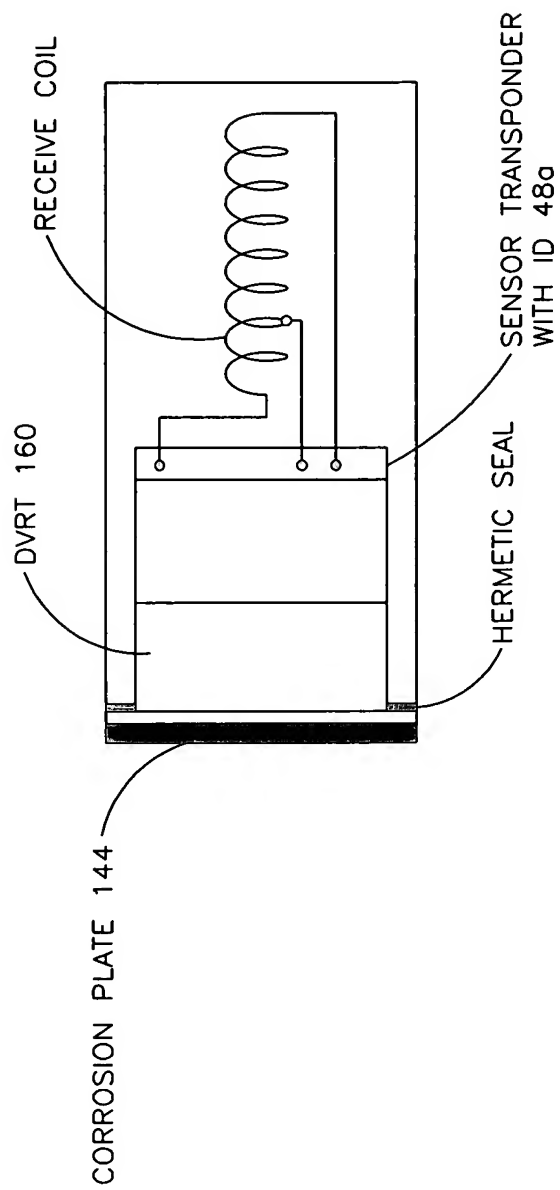


FIG. 17b

REMOTELY POWERED AND INTERROGATED CORROSION
MEASURING DVRT SYSTEM W/O SPRING ELEMENT

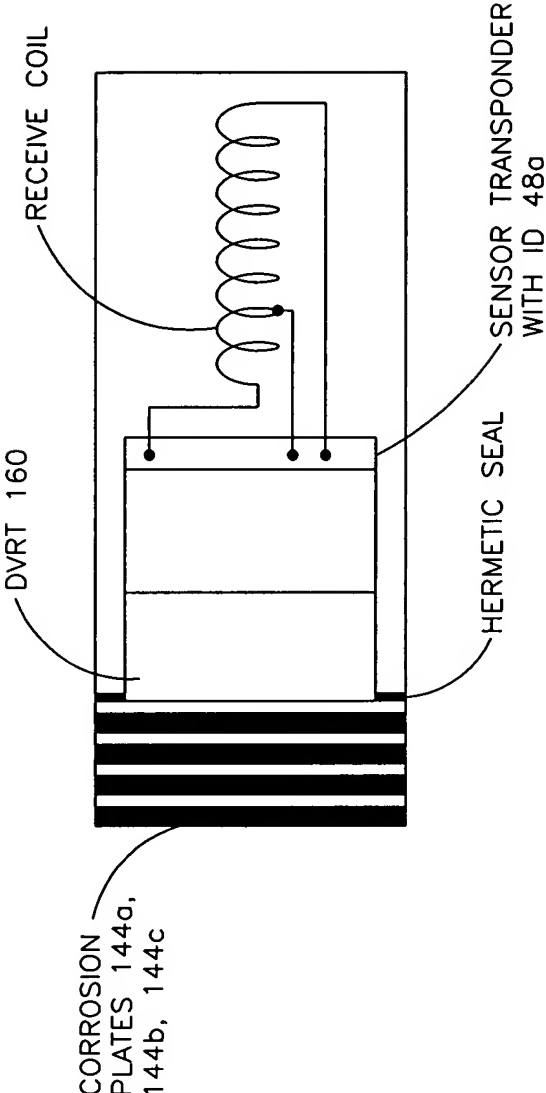


FIG. 17c

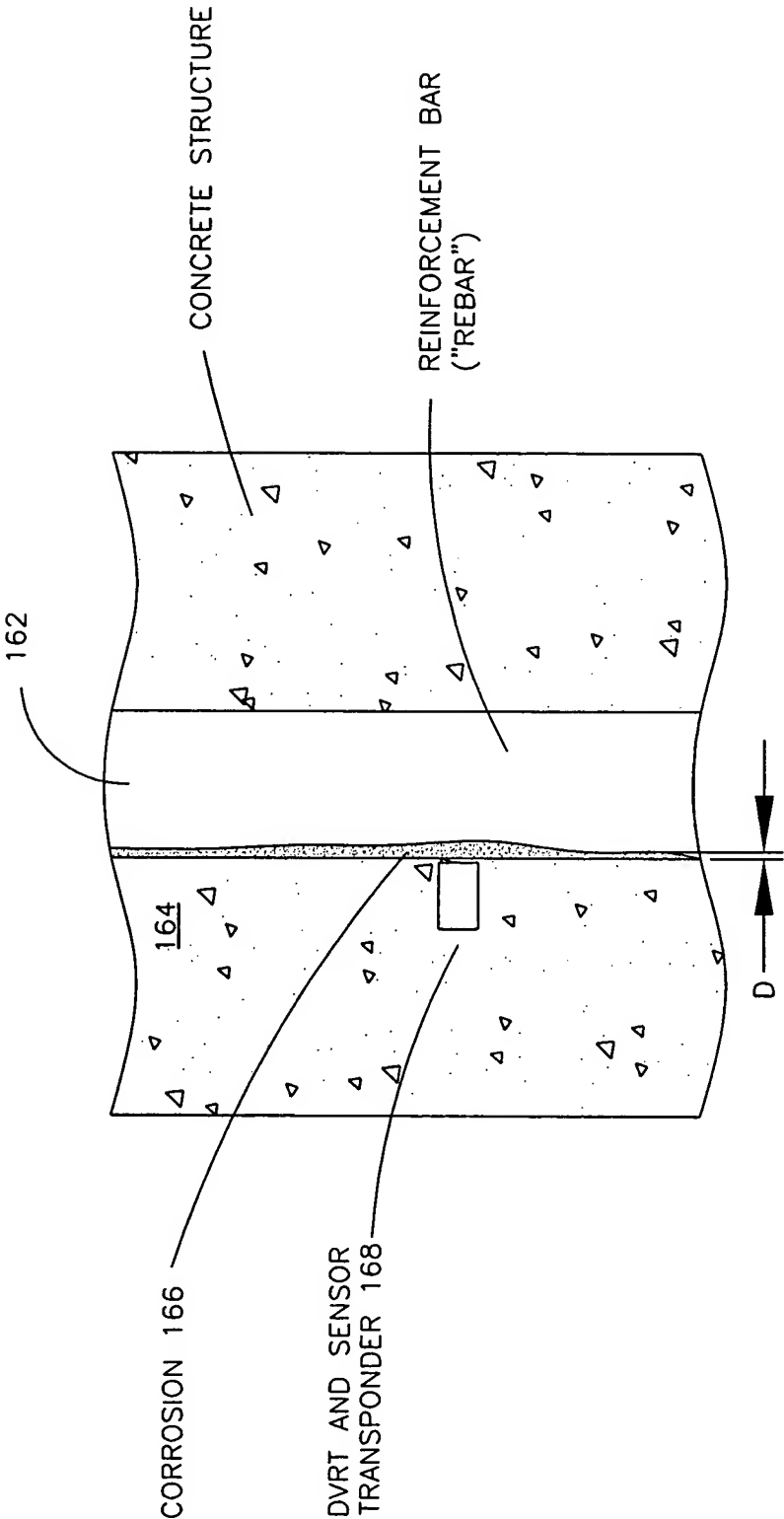


FIG. 17d

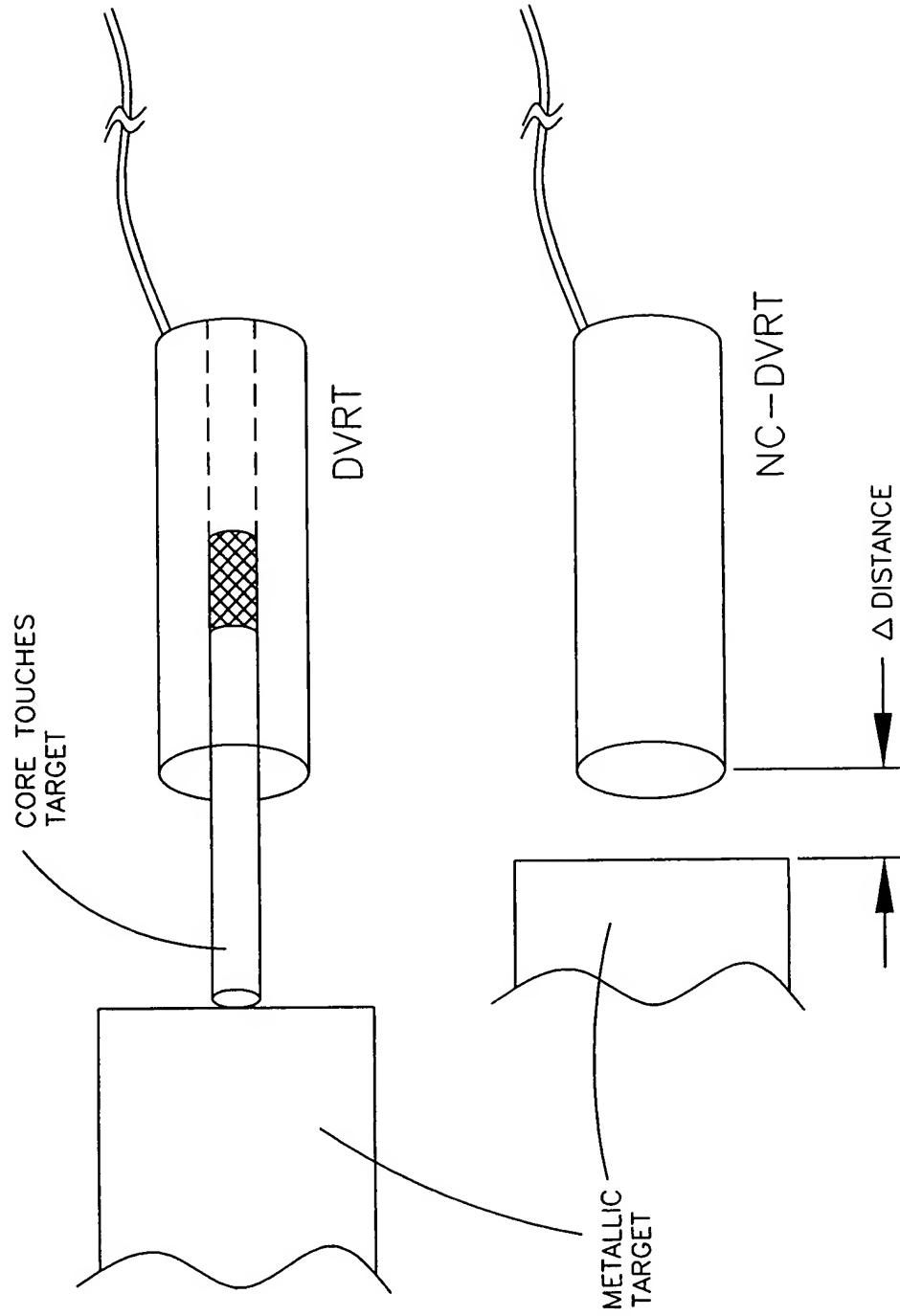


FIG. 17e

REMOTELY POWERED AND INTERROGATED
DVRT FOR FORCE OR PRESSURE
MEASUREMENT

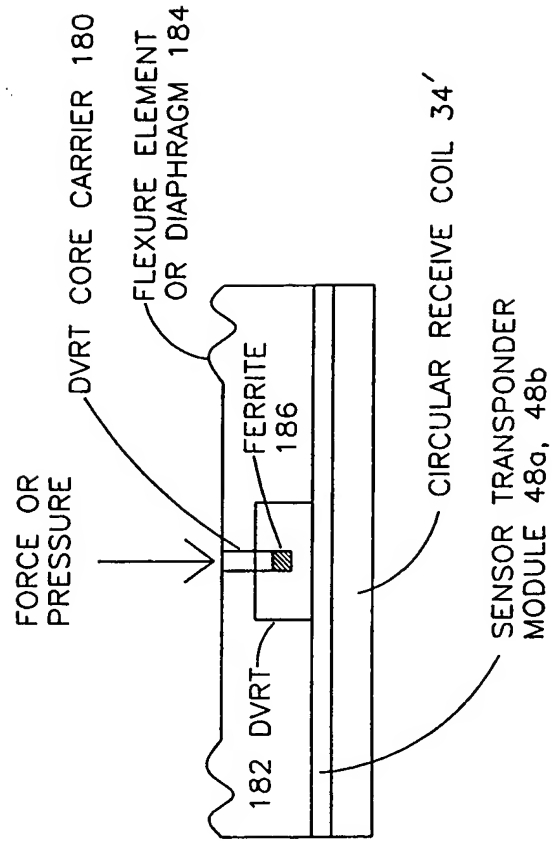


FIG. 18

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REMOTELY POWERED AND INTERROGATED DVRT
FOR FORCE OR PRESSURE MEASUREMENT

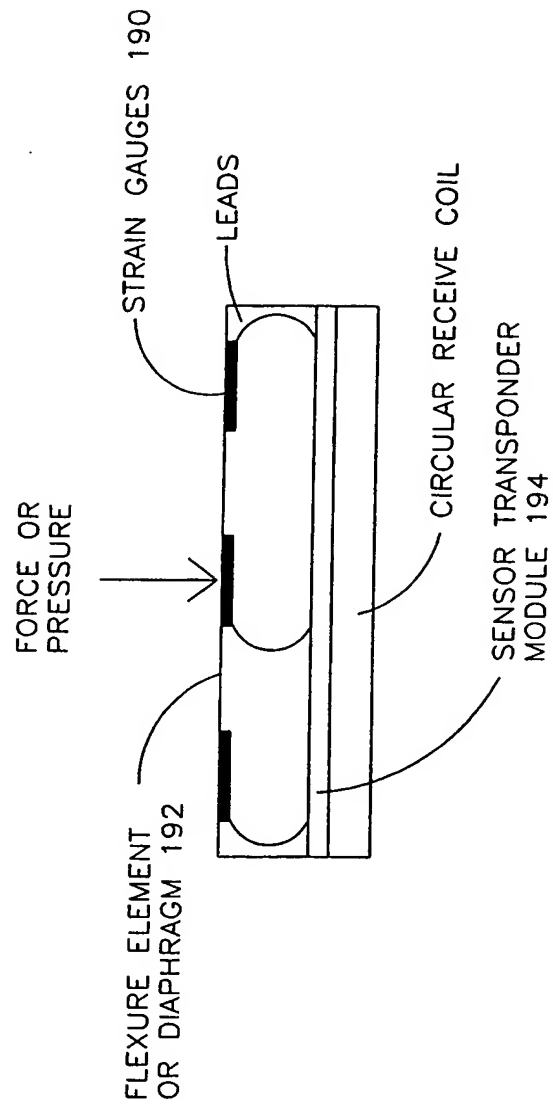


FIG. 19